

*Cited in Biological Abstracts; Current Awareness in Biological Sciences (CABS); Current Contents / Life Sciences; Excerpta Medica (EMBASE); Index Medicus; Informedicus; Pascal M*

## CONTENTS

*Research Papers*

- Pioglitazone promotes insulin-induced activation of phosphoinositide 3-kinase in 3T3-L1 adipocytes by inhibiting a negative control mechanism  
K.M. Sizer, C.L. Smith, C.S. Jacob, M.L. Swanson and J.E. Bleasdale (USA) 1
- Expression of two isoforms of the human growth hormone receptor in normal liver and hepatocarcinoma  
N. Esposito, P. Paterlini, P.A. Kelly, M.-C. Postel-Vinay and J. Finidori (France) 13
- Regulation of steroid hydroxylase gene expression in the ovine fetal adrenal gland at 0.4 gestation  
K. Tangalakis, R. Crawford, A.C. McFarlane and E.M. Wintour (Australia) 21
- Formation and degradation of dihydrotestosterone by recombinant members of the rat 3 $\beta$ -hydroxysteroid dehydrogenase/ $\Delta^5$ - $\Delta^4$  isomerase family  
R. Sanchez, Y. de Launoit, F. Durocher, A. Bélanger, F. Labrie and J. Simard (Canada) 29
- Particulate binding sites for steroid hormones in subcellular fractions of the ovine corpus luteum: properties and hormone specificity  
T.A. Bramley and G.S. Menzies (UK) 39
- Nuclear response of pancreatic islets to interleukin-1 $\beta$   
J. Fernández-Alvarez, C. Tomás, R. Casamitjana and R. Gomis (Spain) 49
- Regulation of HSP90 and corticosteroid receptor mRNA by corticosterone levels in vivo  
V.K. Patchev, L.S. Brady, M. Karl and G.P. Chrousos (USA) 57
- Insulin stimulates thyroid hormone receptor  $\alpha$  gene expression in cultured bovine aortic endothelial cells  
R.-M. Hu, L.-M. Wu, H.J.L. Frank, A. Pedram and E.R. Levin (USA) 65
- Evidence of a stimulatory effect of cyclic AMP on corpus allatum activity in *Manduca sexta*  
N.A. Granger, J.D. MacDonald, M. Menold, R. Ebersohl, K. Hiruma, C.L. Cann and L.M. Riddiford (USA) 73
- Estradiol inhibits growth hormone receptor gene expression in rabbit liver  
H.M. Domené, G. Marín, J. Szein, Y.M. Yu, J. Baron and F.G. Cassorla (USA) 81
- Polyamines regulate human medullary thyroid carcinoma TT-cell proliferation and secretion of calcitonin and calcitonin gene-related peptide  
Å. Sjöholm, E. Bucht, E. Theodorsson, R. Larsson and P. Nygren (UK, Sweden) 89
- Natriuretic peptides elevate cyclic 3',5'-guanosine monophosphate levels in cultured rat pinealocytes: evidence for guanylate cyclase-linked membrane receptors  
J. Olcese, D. Müller, M. Munker and C. Schmidt (Germany) 95
- Presence of the same transcript of pro-opiomelanocortin (POMC) genes in the porcine anterior and intermediate pituitary lobes  
K. Gen, T. Hirai, T. Kato and Y. Kato (Japan) 101
- Protective action by hemin against interleukin-1 $\beta$  induced inhibition of rat pancreatic islet function  
N. Welsh and S. Sandler (Sweden) 109
- Okadaic acid reverses the inhibitory effect of protein kinase C on alkaline phosphatase activity in osteoblast-like cells  
Y. Watanabe, O. Kozawa, A. Suzuki, J. Kotoyori, Y. Ito and Y. Oiso (Japan) 115
- 3,5,3'-Triiodothyronine stimulates retinoic acid-induced differentiation in HL-60 cells  
Y. Miyoshi, H. Nakamura, T. Tagami, S. Sasaki and K. Nakao (Japan) 119
- Inhibitory action of fatty acids on calcium fluxes in thyroid FRTL-5 cells  
E. Ekokoski, L. Forss and K. Törnquist (Finland) 125
- Developmental expression of protein kinase C subspecies in rat brain-pituitary axis  
S. Garcia-Navarro, Y. Marantz, R. Eyal, M. Kalina, M.-H. Disatnik, D. Mochly-Rosen, D. Ben-Menahem, N. Reiss and Z. Naor (Israel, Spain, USA) 133

(continued on page 3 of cover)



# MOLECULAR AND CELLULAR ENDOCRINOLOGY

**Subscription Information:** *Molecular and Cellular Endocrinology* (ISSN 0303-7207). For 1994 vols. 98–106 are scheduled for publication; vol. 98/1 appeared in 1993 but remains in the first issue of the 1994 subscription year. Subscription prices are available upon request from the Publisher. Subscriptions are accepted on a prepaid basis only, unless different terms have been previously agreed upon. Subscription orders can be entered only by calendar year (Jan.–Dec.) and should be sent to Elsevier Science Ireland Ltd., Customer Relations Manager, Bay 15, Shannon Industrial Estate, Shannon, Co. Clare, Ireland, Tel. (+353-61) 471944; Fax (+353-61) 472144, or to your usual subscription agent. Postage and handling charges include surface delivery except to the following countries where air delivery by SAL (Surface Air Lift) mail is ensured: Australia, Canada, Japan and the USA. For all other countries airmail rates are available upon request. Claims for missing issues should be made within six months of our publication (mailing) date, otherwise they cannot be honoured free of charge.

**In the USA and Canada:** For further information on this and other Elsevier journals please contact: Elsevier Science Inc., Journal Information Center, 655 Avenue of the Americas, New York, NY 10010, USA, Tel. (212) 6333750; Fax (212) 6333764; Telex 420-643 AEP UI.

**Back volumes:** Please contact the Publisher.

## Information for Advertisers

Advertising orders and enquiries can be sent to the Advertising Manager, Elsevier Science B.V., Advertising Department, P.O. Box 211, 1000 AE Amsterdam, The Netherlands, Tel. (+31-20) 5153220; Fax: (+31-20) 6833041, attn. Advertising Department.

Great Britain: T.G. Scott & Son Ltd., Portland House, 21 Narborough Road, Cosby, Leicestershire LE9 5TA, Tel. (0533) 753333; Fax: (0533) 750522, attn. Tim Black.

USA & Canada: Weston Media Associates, Daniel Lipner, P.O. Box 1110, Greens Farms, CT 06436-1110, Tel. (203) 2612500, Fax (203) 2610101.

## Contents (continued)

- Transcriptional regulation of plasminogen activator inhibitor-1 expression in human synovial fibroblasts by prostaglandin E<sub>2</sub>: mediation by protein kinase A and role of interleukin-1  
J.A. DiBattista, J. Martel-Pelletier, N. Morin, F.-C. Jolicœur and J.-P. Pelletier (Canada) 139
- Identification of a retinoic acid response element upstream of the rat  $\alpha$ -fetoprotein gene  
Y. Liu, H.-M. Chen and J.-F. Chiu (USA) 149
- Molecular and cellular characterization of the GABA<sub>A</sub> receptor in the rat pancreas  
P. Borboni, O. Porzio, A. Fusco, G. Sesti, R. Lauro and L.N.J.L. Marlier (Italy) 157
- Differential expression of mRNAs for endothelin-related proteins in human endometrium, myometrium and leiomyoma  
F. Pekonen, T. Nyman and E.-M. Rutanen (Finland) 165

## Erratum

- Calcitonin receptor in human placental syncytiotrophoblast brush border and basal plasma membranes  
J. Lafond, L. Simoneau, R. Savard and D. Lajeunesse 171

- Calendar 173

## Rapid papers

- The human gonadotropin-releasing hormone (GnRH) receptor gene: cloning, genomic organization and chromosomal assignment  
N.C. Fan, E.-B. Jeung, C. Peng, J.I. Olofsson, J. Krisinger and P.C.K. Leung (Canada, Sweden) R1
- Regulation of bovine adrenal cell corticotropin receptor mRNA levels by corticotropin (ACTH) and angiotensin-II (A-II)  
A. Penhoat, C. Jaillard and J.M. Saez (France) R7

## Notes to Authors

